### **ENVIRONMENTAL CHEMISTS**

Date of Report: 09/23/98 Date Received: 09/17/98

Project: Metro Self Monitor, PO# M77137

Date Samples Extracted: 09/21/98 Date Extracts Analyzed: 09/21/98

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

# Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	Nickel Zinc
M77137	1.0	0.90	1.9 0.30
Method Blank	<0.05	<0.05	<0.05 <0.05

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Project: Metro Self Monitor, PO# M77137

# QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 809072-01 (Duplicate)

				Relative	
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	1.0	1.0	0	0-20
Copper	mg/L (ppm)	0.90	0.87	3	0-20
Nickel	mg/L (ppm)	1.9	1.9	0	0-20
Zinc	mg/L (ppm)	0.30	0.32	6	0-20

Laboratory Code: 809072-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery % Recov	ery Acceptance	)
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
Chromium	mg/L (ppm)	5	1.0	100	99	80-120	1
Copper	mg/L (ppm)	5	0.90	94	95	80-120	1
Nickel	mg/L (ppm)	10	1.9	100	101	80-120	1
Zinc	mg/L (ppm)	5	0.30	106	103	80-120	3

Laboratory Code: Laboratory Control Sample

	Repor	cting Spik	e % Recov	ery % Recov	ery Acceptanc	е	
Analyte	Un	its Leve	l LCS	LCSE	) Criteria	RPD	* -
Chromium	mg/L (	(ppm) 5	105	105	80-120	0	
Copper	mg/L (	(ppm) 5	100	99	80-120	1	
Nickel	mg/L (	(ppm) 10	105	106	80-120	1	
Zinc	mg/L (	(ppm) 5	109	111	80-120	2	

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 23, 1998

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 17, 1998 from your Metro Self Monitor, PO# M77137 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Manuel Marti Project Manager

Enclosures ACU0923R.DOC FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

809072

P. 17.98 Pm

# SAMPLE CHAIN OF CUSTODY

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FORMS/COC

06/09/97

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September 23, 1998

### **DUPLICATE COPY**

### **INVOICE #98ACU0923-1**

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M77137: Results of testing requested by Gerry Thompson for material submitted on September 17, 1998.

FEDERAL TAX ID (b) (6)